



Motorola 52nd Street Superfund Site-Five-Year Review Report Overview

CIG Meeting September 21, 2011



**Arizona Department of
Environmental Quality**



**U.S. Environmental
Protection Agency, Region 9**

Purpose of Five-Year Review Report

- Evaluate the implementation and performance of a remedy in order to determine if it is or will be protective of human health and the environment.
- 3 questions are used to determine whether a remedy is protective:

Question A: Is the remedy functioning as intended?

Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?

Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

Why Perform the Five-Year Review?

- Completed when cleanup remedies leave contaminants in place above levels that allow for unrestricted use and unrestricted exposure of impacted environmental media
- Required by Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) 121(c) and National Contingency Plan (NCP) 40 CFR 300.430(f)
- Self Evaluation and review of remedy
- Helps identify Issues, Progress and Recommendations

Five-Year Review Process

- All of the information gathered from the Five-Year review process is used to perform a technical assessment of the remedy.
- Based on the technical assessment, the following are identified:
 1. Issues and noted concerns
 2. Recommendations and follow-up actions
 3. Protectiveness Statement

What's in the Five-Year Review

- Site Chronology and Site History
- Technical Assessment of Interim Remedy and Record of Decision (ROD)
- Community Interviews
- Inspection of Treatment Facilities
- Document Review
- Data Review

Cut Off Date

- Review period from August 2006 through October 2010
- Signed by September 30th, 2011

Technical Assessment Question A

Is the remedy functioning as intended by the decision documents?

- Remedial Action Performance
- System O&M Effectiveness
- O&M Costs
- Opportunities for Optimization
- Early Indicators of Potential Remedy Problems
- Implementation of Institutional Controls and Site Control Measures

Technical Assessment Question B

Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?

- Changes in Standards & To Be Considered (TBCs)
- Changes in Land Use
- Changes in Known Exposure Pathways, Toxicity, and Other Contaminant Characteristics
- Changes in Risk Assessment Methods
- New Contaminants and/or Contaminant Sources
- Progress towards Meeting Remedial Action Objectives

Technical Assessment Question C

Has any other information come to light that could call into question the protectiveness of the remedy?

- Summary

- remedy performance?

- new contaminants?

- new standards?

- new models?

- new pathways?

- long term protectiveness?

What is in the Outcome?

- Identification of Issues
- Recommendations and Follow-Up Actions
- Protectiveness Statement
- Signed by EPA and ADEQ

Next CIG Meeting

- What does the CIG want the Five-Year Review Presentation of Findings to Focus on at next CIG meeting?
- Comparison to Issues in Last Five-Year Review
- Vapor Intrusion pathway
- What else???



Contact Information

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